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REPLACEMENT SHEET

BAIT	PREY	25°C			37°C		
		Glu	Gal	Glu	Gal	Glu	Gal
Ras	clone 72	++	+	++	+	++	+
Ras	clone 61	++	+	++	+	++	+
Ras	lamin C	++	+	++	+	++	+
Ras-RANKcd	clone 72	++	+	++	+	++	+
Ras-RANKcd	clone 61	++	+	++	+	++	+
Ras-RANKcd	lamin C	++	+	++	+	++	+
none	clone 72	++	+	++	+	++	+
none	clone 61	++	+	++	+	++	+
none	lamin C	++	+	++	+	++	+

B

hRAIN:	mRAIN:	hRAIN:	mRAIN:
1 MSGCDAGEGDCCSRRCGAQDKEHPRYLIPELCKQFYHLGWVTGGGISLKHGDEIYIAP 60	1 MSGCQA-QGDCCSRRCGAQDKEHPRYLIPELCKQFYHLGWVTGGGISLKHGDEIYIAP 59	61 SGVQKERIOPEDMFYCDINEKD1ISGPSPSKKLXKSQCTPLFMNAYTMRGAGAVIHTHSKA 120	60 SGVQKERIOPEDMFYCDINEQDISGPASKKLXKSQCTPLFMNAYTMRGAGAVIHTHSKA 119
hRAIN:	mRAIN:	hRAIN:	mRAIN:
121 AVMATLLFPGREFKITHOEMIKGIKKCTSGGYRYDDMLWVP1IENTPEEKGLKDORMAHA 180	120 AVMATLLFPQEEFKITHOEMIKGIRKCTSGGYRYDDMLWVP1IENTPEEKDLKERMASHA 179	181 MNEYPDSCAVLVRRGYIVWGETWEAKTMCECYDLEDIAVSMKKVGLDPSOLPVENG 240	180 MNEYPDSCAVLVRRGYIVWGETWEAKTMCECYDLEDIAVSMKKVGLDPTQLPVENG 239
hRAIN:	mRAIN:	hRAIN:	mRAIN:
241 IV	240 IV	241 IV	240 IV

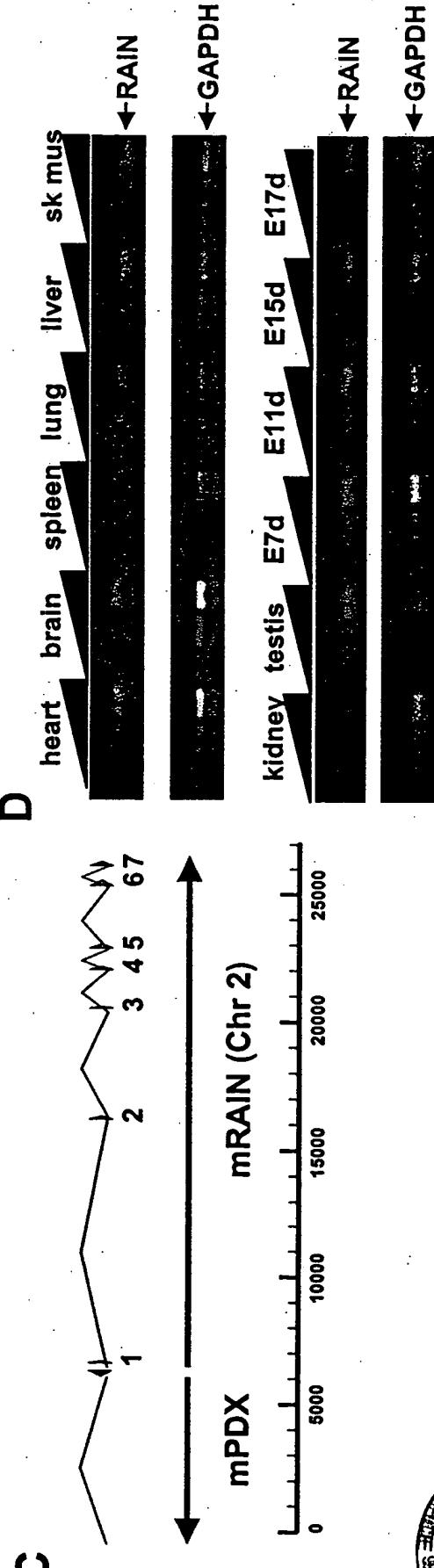


FIG. 1A-D

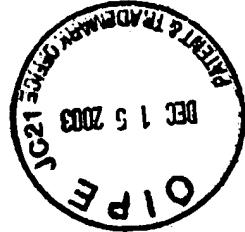
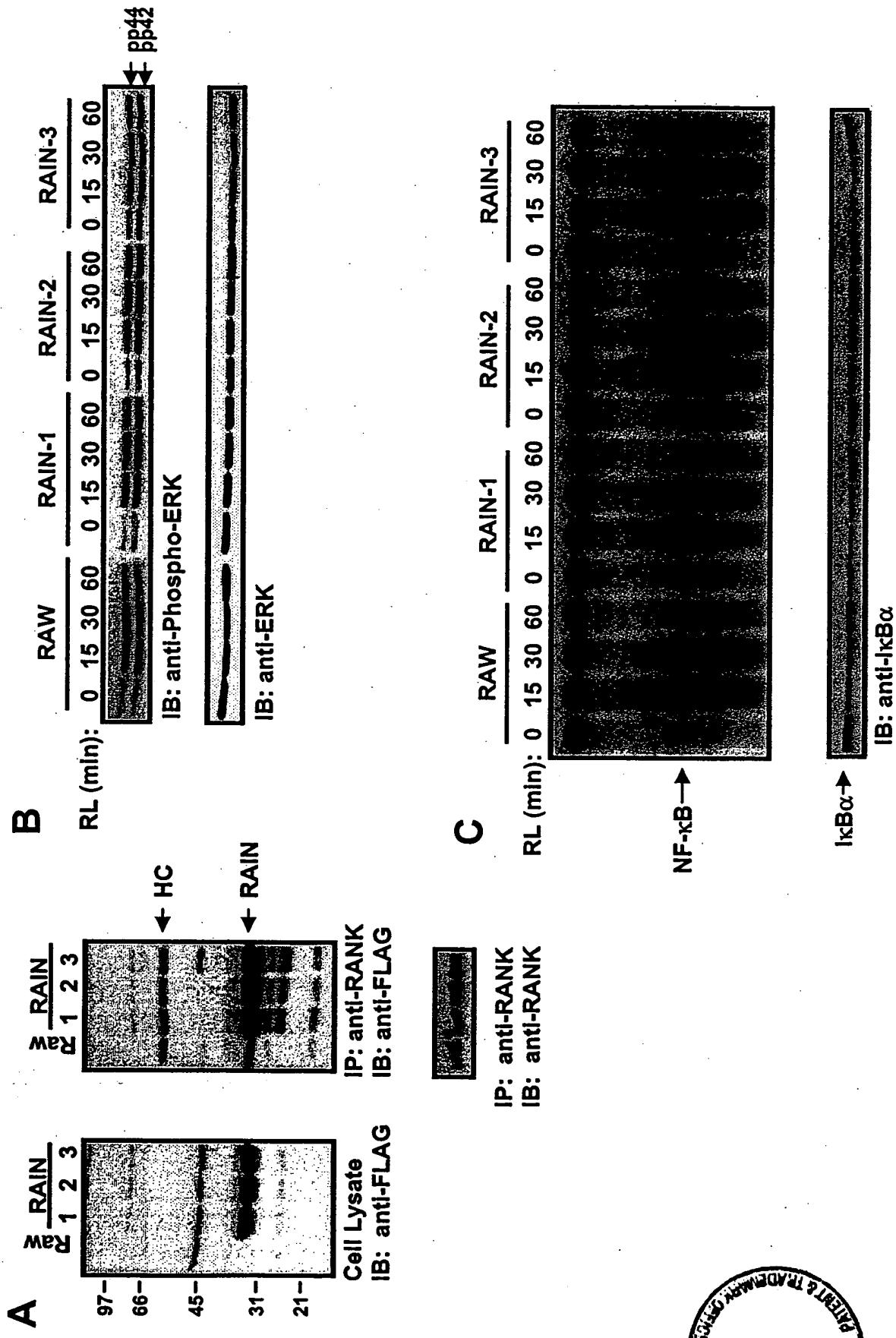
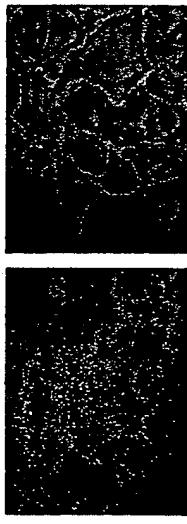


FIG. 2A-C

A

Control RANKL



RANKL
+
Fc-OPG

15



C

	RAW	RAIN-1	RAIN-2	RAIN-3
RL (h):	0 24 48 72	0 24 48 72	0 24 48 72	0 24 48 72

IB: anti-p27

D

	RAW	RAIN-3
Time (h):	0 24 48 72 0 24 48 72	

IB: anti-NFATc1

NFATc1

97
66

RANKL

Control

RAW

REPLACEMENT SHEET

E

	RAW	RAIN-1	RAIN-2	RAIN-3
RL (d):	0 1 2 3 4			

45-
31-
←RAIN

	RAW	RAIN-1	RAIN-2	RAIN-3
IB: anti-RAIN				

IB: anti-RAIN

F



RAIN

mmp9

actin

FIG. 3A-F

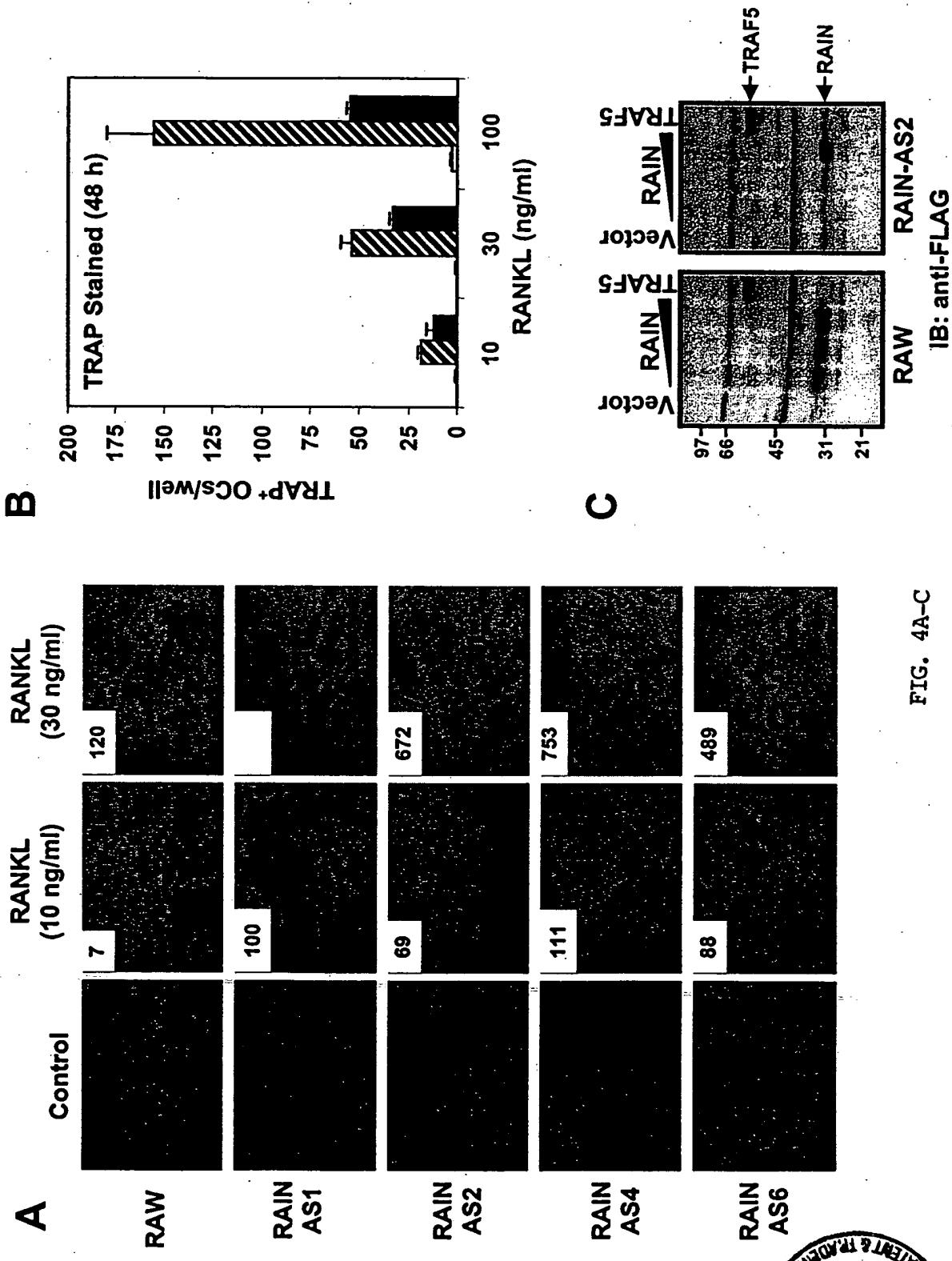


FIG. 4A-C

REPLACEMENT SHEET

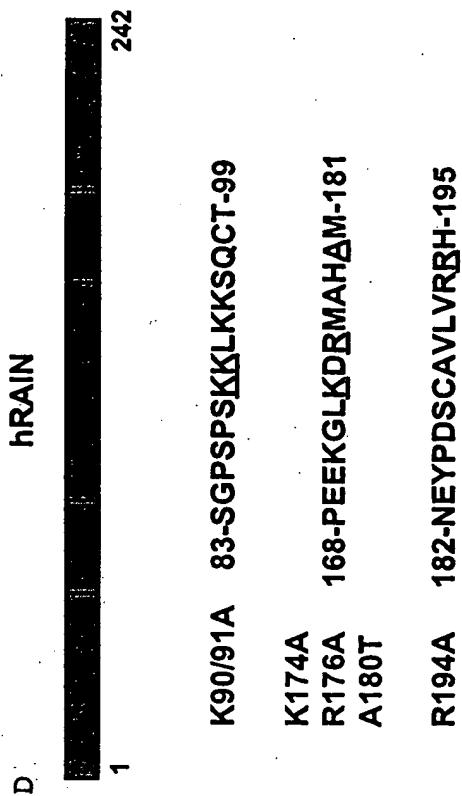
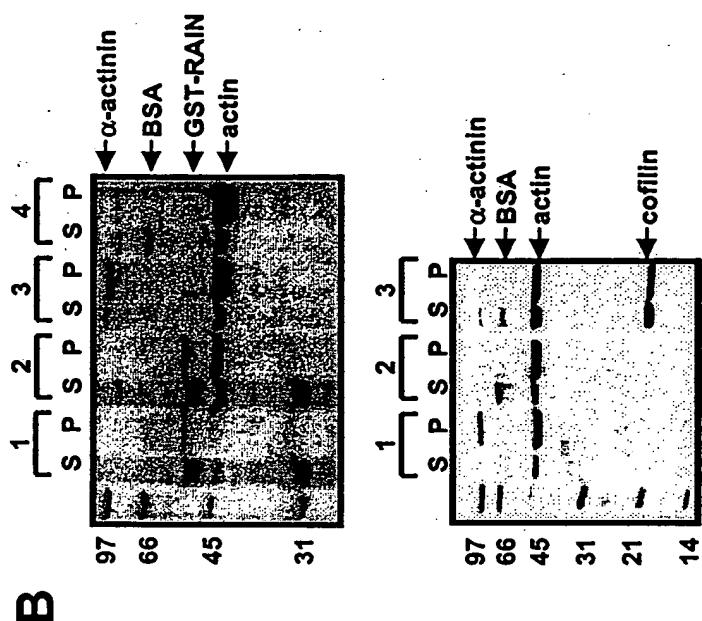
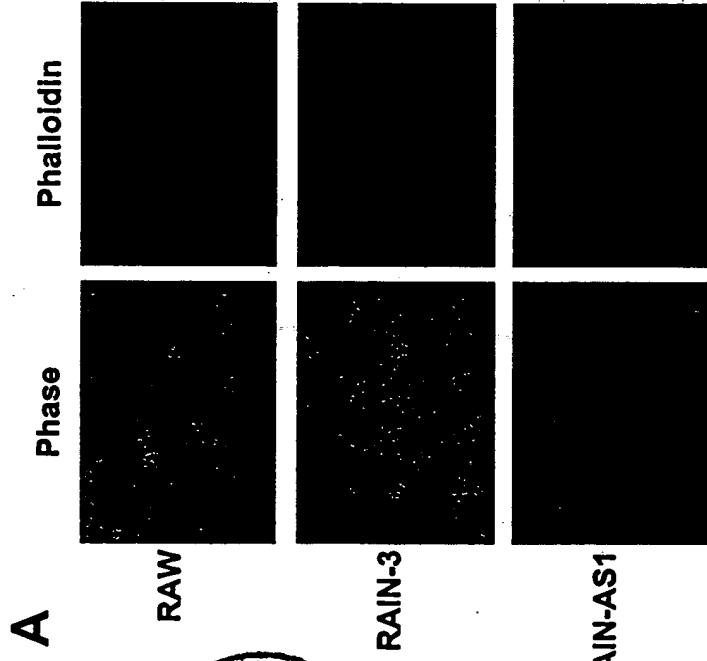
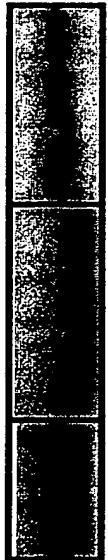


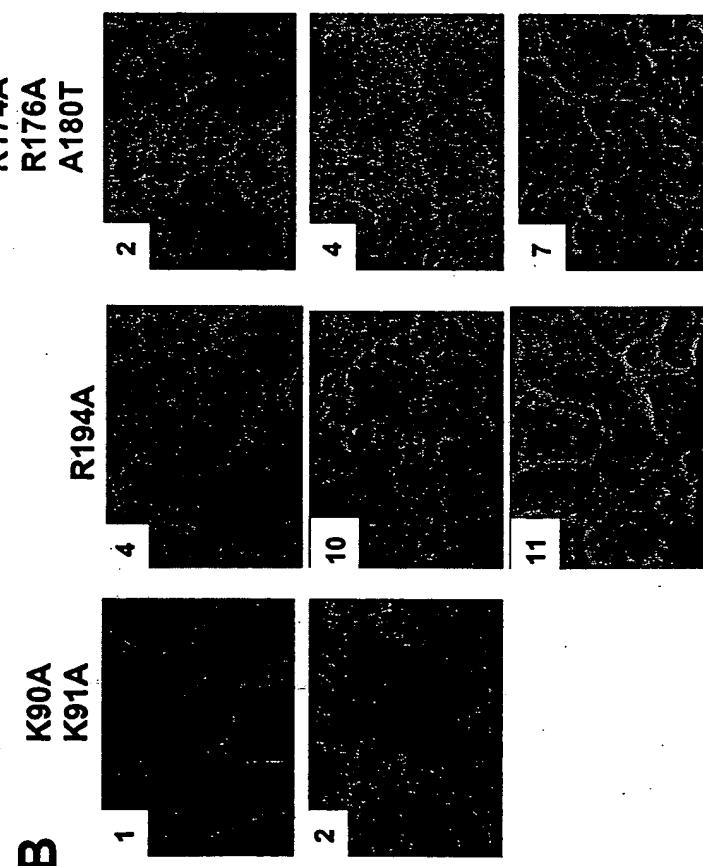
FIG. 5A-D

A

	K90A	K91A	R194A	K174A R176A A180T
Clone:	1	2	4	10 11 2 4 7



B: anti-FLAG



C

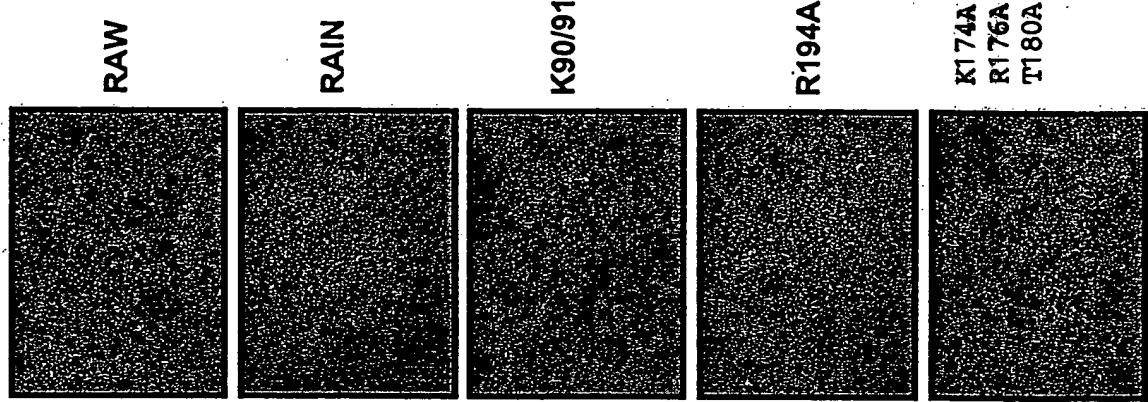


FIG. 6A-C

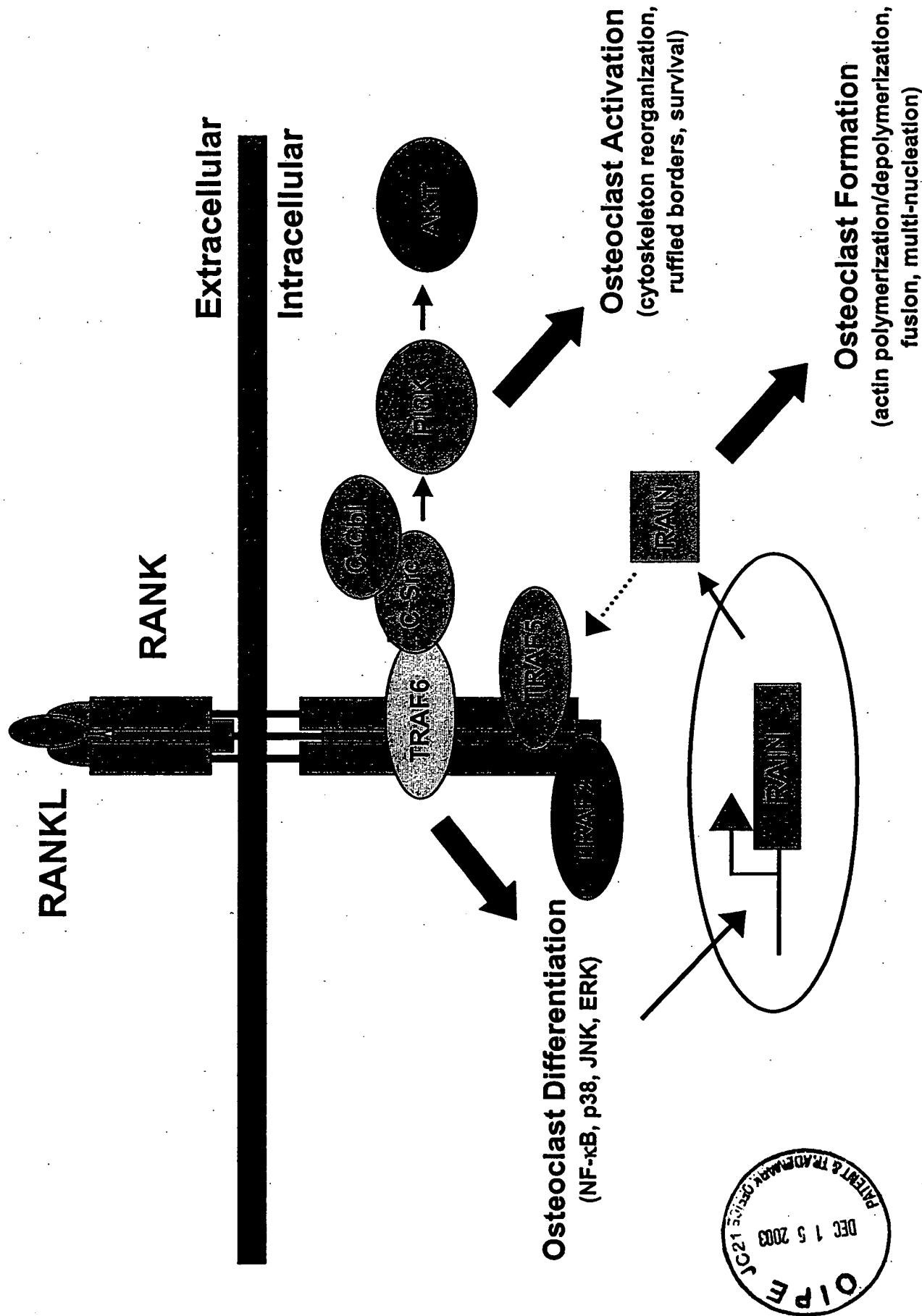


FIG. 7

4

MAIN: 661 gtcataatggaaatggactgtttccacacatgtttggaaatgttggaaat 720
 ||| ||| ||| ||| ||| ||| ||| |||
hrp19: 661 gtcataatggaaatggactgtttccacacatgtttggaaatgttggaaatgttggaaat 720
 ||| ||| ||| ||| ||| ||| |||
MAIN: 721 gggtaa 726

2

PLAIN: 661 ggccatcaatggaaatggacttgtatccatgtccatgtggaaaaatgg 720
 ||||| ||||| |||||
 721-29: 661 ggccatcaatggaaatggacttgtatccatgtggaaaaatgg 720
 ||||| |||||
 QAIN: 721 atggaaa 729
 |||||
 735-29: 721 atggataa 729

FIG. 8A-B